Magna Metals Site

NYSDEC Site No. 360003

CORTLANDT, NEW YORK

Soil Vapor Investigation Report

AKRF Project Number: 40256

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1.0 INTRODUCTION

Investigation at the Magna Metals Site, located in Cortlandt, New York, has been conducted to comply with a New York State Department of Environmental Conservation's (NYSDEC) Consent Order (Site No. 360003). In June 2006, Tetra Tech EC, Inc. (TTI) submitted a letter report to the NYSDEC that summarized the results of soil vapor sampling and additional groundwater sampling. In November 2006, the NYSDEC issued a correspondence requiring sampling of the office/warehouse building located east of the former Magna Metals building to confirm that soil vapor intrusion is not occurring. This report documents the collection of sub-slab soil vapor samples and air samples to satisfy the NYSDEC requirements.

2.0 SITE DESCRIPTION

2.1 Site Location

The Magna Metals site is located in the Town of Cortlandt, Westchester County, New York, near the intersection of Furnace Dock Road and Maple Avenue. A site location map is included in Figure 1. Nearby towns include Peekskill and Croton-on-Hudson, and the Hudson River is located 3 miles west of the site.

2.2 Site and Vicinity Characteristics

Locally, the site is part of a larger commercial property owned by Baker Properties, having several operating businesses which currently include Polymedco, Inc., Motion Labs, Inc., and International Purchasing Systems. The office/warehouse building was reported by the owner to include some manufacturing activities. Baker Properties acquired the property from ISC Properties, Inc. (ISCP) in 1982, and has leased it to various tenants. The identity of these tenants, their use of the property, and their waste disposal practices are unknown. The Croton Egg Farm and an inactive emery mine are located to the west and to the north-northwest of the site, respectively. To the north, south, and east of the project site are residential areas. A wetland area is located between the site and the residential area southwest of the site.

2.3 Site Geology, Hydrogeology and Subsurface Characteristics

Topography is variable throughout the 0.5-mile radius from the site. Elevations range from 300 to 600 feet above mean sea level (MSL). On the former Magna Metals site, topography ranges from 360 feet MSL along the eastern site boundary to 320 feet MSL along the western site boundary. Stormwater drainage flows towards the west, following site topography, and drains into an unnamed tributary to Furnace Brook. The tributary flows south/southwest and discharges into a pond located in a large wetland area.

Stormwater on the former Magna Metals site leaves the site via overland flow and enters into the unnamed tributary. One catch basin was observed by TTI on the former site property. This basin is located in the central western portion of the site and collects discharge water from a roadway/parking area. The roadway is a mix of gravel and pavement. A search for the catch basin's outfall pipe was conducted along the unnamed tributary. An outfall pipe was not located. The stormwater collection system on Furnace Dock Road discharges into the unnamed tributary near the intersection of Furnace Dock Road and Gilman Lane.

The geologic characteristics of the subsurface conditions at the site consist primarily of a sandy to silty sand overburden unit, approximately 10 to 20 feet thick, overlying bedrock. The bedrock is mapped by the New York State Museum and Science Service as Hornblende Norite, which is a

part of the Cortlandt Mafic Complex. Overburden groundwater exists in the form of a very shallow overburden aquifer (i.e., typically less than five feet in thickness). Groundwater flow from the site is in the western direction towards the stream and wetland area.

Results of the slug tests completed by TTI indicate a range in hydraulic conductivity values from 5.3 x 10⁻⁵ cm/sec (or 0.16 ft/day) at MW-1 in the higher portion of the site to 2.2 x 10⁻³ cm/sec (6.2 ft/day) at MW-3 in the lower portion of the leach pit area. Previous groundwater sampling by TTI indicates that some monitoring wells were observed to be dry during seasonal low groundwater conditions.

2.4 Review of Site History

Metal plating, polishing, and lacquering operations were conducted at the Magna Metals site from 1955 to 1979. During operation, iron, lead, copper, nickel, and zinc chlorides, cyanides, and sulfates were discharged to a series of leaching pits. Spent trichloroethylene (TCE) was drummed and removed.

2.5 Previous Studies

Between 1978 and 1984, site investigations were completed by the New York State Department of Health (NYSDOH), the NYSDEC, and William Cosulich to determine if property uses had resulted in contamination. The investigations concluded that soil, groundwater, sediment, and, surface water contamination existed at the site.

In 1998, Foster Wheeler Environmental Corporation (predecessor to TTI) completed a Remedial Investigation/Feasibility Study (RI/FS) to delineate the nature and extent of leach pit/septic tank/holding tank, surface water, sediment, surface soil, subsurface soil, and groundwater contamination at the site, such that an evaluation of (1) the nature and extent of site contamination, (2) the potential impacts, if any, and (3) the remedial measure options could be performed. The field investigation program consisted of the drilling of soil borings, the installation and development of monitoring wells, the performance of a habitat-based assessment, and the sampling and analysis of various environmental media including septic tank/leach pit sludge and water, surface soil, subsurface soil, surface water, sediment, and groundwater. A geophysical survey was added to the field investigation to improve location accuracy of the leach pit/septic tank/holding tank sampling.

In 2004, TTI completed a Draft Supplemental RI/FS to perform horizontal and vertical delineation of the soil and groundwater contamination in the potential source area of the site, the leach pit area. The investigation included a geophysical and excavation survey to locate leach pits, leach pit excavation, a homeowner well survey, installation of overburden monitoring wells and a bedrock monitoring well, and collection of soil, groundwater, surface water and sediment samples. Based on the data compiled in the supplemental investigation, TTI concluded the following:

- Concentrations and distributions of contaminant compounds and analytes detected during the Supplemental RI are consistent with contaminant concentrations and distributions detected during previous investigations.
- Xylenes, semivolatile organic compounds (SVOCs), and metals were detected in leach pit sludge samples. Xylenes were detected in soil samples collected below the leach pits
- TCE was detected in the groundwater sample collected from MW-04 and MW-04D.
- Media sampled were affected by inorganic contaminants of concern at concentrations above soil cleanup criteria. In particular, chromium, copper, mercury, nickel, and zinc are

potentially site related compounds that were detected at concentrations exceeding applicable criteria.

- Thirteen leach pits/septic pits had been discovered at the Magna Metals site.
- There appeared to have been two phases of leach pit/septic tank construction at the site. The first and older set of leach pits was constructed of concrete cinder blocks with a soil or gravel bottom. The second phase of leach pits was constructed of prefabricated concrete cylinders with perforated sides and apparently soil or gravel bottoms. Sludge or sludge cakes were still present in twelve of the thirteen pits at the site.
- Based on inorganic analytical results (particularly copper) for the surface water, groundwater, and surface soil samples collected downgradient of the leach pit area and the former Magna Metals building, it appeared that the wetlands east of Furnace Brook and the unnamed tributary may have been impacted by contaminated groundwater or surface runoff originating in the vicinity of the leach pit area and site building.
- Impacts to pelagic and benthic aquatic life were observed in indigenous and laboratory based analyses. The primary environmental media of concern were surface waters and sediments of Furnace Brook, its unnamed tributary, and the palustrine wetlands associated with the site.

In 2006, TTI completed an additional investigation, which included the collection of groundwater samples from existing wells and two new wells next to the former Magna Metals building, and soil vapor samples from three exterior locations along western side of office/warehouse building, five exterior locations within the area containing the leach pits, and one interior sub-slab sample from the building south of the Magna Metals building and the office/warehouse building.

The sampling results indicated that groundwater collected from the two new monitoring wells did not contain contaminants above NYSDEC water quality standards and the overall samples were consistent with previous data. The soil gas sample results documented that VOCs were detected at concentrations ranging from 1 to 1,900 micrograms per cubic meter (ug/m³). A site map showing the soil gas sampling locations and the laboratory sampling results is included as Figure 2. TTI concluded that the sampling results were consistent with the findings of the current and previous sampling and did not indicate there were unknown sources.

In November 2006, the NYSDEC issued correspondence requiring the sampling of sub-slab soil vapor from the on-site office/warehouse building to the east of the Magna Metals building to confirm that soil vapor intrusion was not occurring. This was in response to a TCE concentration of 59 micrograms per cubic meter in one soil vapor sample (SV-03) that was collected next to the office/warehouse building.

3.0 FIELD PROGRAM

The objectives of the field-sampling program were to confirm that soil vapor intrusion is not occurring in office/warehouse building located east of the former Magna Metals building. The field procedures and sampling activities were completed in accordance with NYSDOH's requirements (NYSDOH, 2006). The field program is outlined in Section 3.1, and the subsequent sections give the summary of sampling implementation. The field program was conducted in accordance with the detailed methodologies described in the NYSDEC approved Soil Vapor Investigation Work Plan (SVIWP)

3.1 Field Program Summary

Site access for the property and study building was agreed upon between ISCP and the property owner/manager through a signed access agreement. Sub-slab soil-gas samples and indoor air

samples were collected at five locations from the lowest level in the office/warehouse building participating in this study. Figure 2 shows the project site building and the locations for soil gas sampling.

3.2 Pre-Sampling Survey

On March 16, 2007, AKRF initiated the soil-vapor sampling program by completing a presampling survey of the site building. Mr. Marc Godick and Bryan Zieroff of AKRF were accompanied by Nathan Walz of the NYSDOH, Don Duthaler of Baker Properties (site owner representative), and Ernie Sweet of Environmental Resource Management (ERM) (consultant for the site owner). The survey was completed to document any factors that may affect indoor air quality and to determine the location and quantity of sampling locations. The survey included interviews with a representative of each building occupant. The building occupants and corresponding representative included:

- Polymedco, Inc. Richard DeAlto
- Motion Labs, Inc. John Coppolecchia
- International Purchasing Systems Michael Brooks

Documentation was compiled of the building characteristics, air flow patterns, heating, venting and air conditioning, occupancy, water and sewage utilities, building operations, product inventory, and any other known factors that may affect indoor air quality. A mini Rae photoionization detector (PID) was used during the survey to sample ambient air for the presence of VOCs. Prior to conducting the survey, the PID was calibrated with 100 parts per million (ppm) isobutylene in accordance with the manufacturer's instructions. A NYSDOH Indoor Air Quality Questionnaire and Building Inventory form for each occupant was used to document the detailed results of the survey and is included in Appendix A.

Soil Gas Well I.D.	Sampling Rationale
SV-10	Soil gas investigation at the north end of the Polymedco office area. Subslab point through floor in corner of copy room. Ambient air sample in at breathing level in copy room.
SV-11	Soil gas investigation in the central area of the Polymedco office. Sub-slab point through floor in employee office. Ambient air sample on shelf in employee office.
SV-12	Soil gas investigation in the south end of the Polymedco office area in lab coat closet. Ambient air sample on shelf in closet.
SV-13	Soil gas investigation in the Motion Labs office and production area. Subslap point through 1 st floor machine shop. Ambient air sample in 2 nd floor office area.
SV-14	Soil gas investigation in the office area of the Polymedco warehouse. Subslab point through floor near in northeast corner of warehouse. Ambient air location in small office area in the northeast corner of the warehouse.
SV-15	Soil gas investigation in the International Purchasing Systems area. Subslab point through concrete floor in dry goods warehouse. Ambient air sample location in small office area on north side of the warehouse.

The building was constructed with concrete block walls and a concrete slab floor. Sections of the building interior were improved with wood frame construction and drop ceilings. A summary of the survey for each tenant is described in this section. Photographs taken during the survey are included in Appendix B. The building layout and tenant locations are shown on Figure 2.

Polymedco, Inc.

Polymedco occupied two sections of the site building; the western section consisted of a one story office area, laboratory, and a loading dock storage area, and the eastern portion consisted of a bulk warehouse (Figure 2). There was no known chemical storage in the office area. The laboratory was observed to contain a refrigerated storage unit that stored reagents for control testing of the laboratory machines. The loading dock area contained shelved storage units that stored a variety of containerized chemicals and cleaning products. Items of note included buckets of paint, spray paint, turpentine, citrus degreaser, insect spray, varnish cleaner, wood polish, tikitorch oil, metal polish, and spray adhesive. There were no PID detections in these areas. Storage cabinets were also present in the northern end of the warehouse. The warehouse cabinets contained spray paint and primer, paint remover, citrus degreaser, PVC primer and cement, and an assortment of disinfectants and household cleaners. A slop sink and mop storage area next to the chemical storage contained a five-gallon paint bucket, a one-gallon paint thinner can and disinfectant cleaners. A full list of all stored compounds is attached to the pre-sampling survey in Appendix A. Organic vapors were detected by the PID at a concentrations ranging from 3 to 20 ppm in the slop sink area. A fuel oil boiler was located on the eastern side of the warehouse. The boiler area was secured by a spill containment berm. Fuel oil staining and petroleum absorbent materials were observed on the concrete floor within the containment berm. Fuel oil odors were evident in this area.

Motion Labs, Inc.

Motion labs occupied the section of the site building between the Polymedco office and warehouse, and the space consisted of a ground floor machine shop and a second floor manufacturing and office area. The cutting oils for machine operation were reported as being alcohol based. Burlap bags used for product shipment were spray painted once a week in the western side of the shop. Small mobile shelf units (on wheels) and milk crates used for chemical storage were seen at multiple locations throughout the first floor. Stored items included Emerald Topaz cleaner and degreaser, Excelene polishing oil (containing petroleum distillates), a onegallon container of concentrated degreaser (containing petroleum and phenols), white board cleaner, a one-gallon container of velocite oil No. 6, and a five-gallon container of kerosene. Organic vapors were detected by the PID at concentrations up to 58 ppm above an open container of petroleum distillates. The second floor manufacturing area contained air driven equipment for product assembly. A commercial spray lubricant was used on the equipment and isopropyl alcohol was used for cleaning the electric panels. A storage area next to the cafeteria contained floor sealer, glass cleaner, ammonia and an assortment of household cleaners. Portable storage shelves were observed containing non-chlorinated degreaser spray, spray paint, a five-gallon container of light aliphatic naptha, and containers of locking cement for nuts/bolts. Flammable material storage cabinets were located on the second floor and contained solder remover, spray lubricants, air tool cleaners (containing petroleum distillates), a five-gallon gasoline container, a one-gallon kerosene container, scotch grip adhesive, paint cans, spray paint, denatured solvent, and contact cement. There were no detections with the PID while screening the indoor air on the second floor.

An external boiler room was enclosed in an outdoor area on the north end of the Motion Labs section of the building. The boiler room contained a fuel oil boiler and a compressor. Multiple

one-gallon paint cans and a five-gallon paint bucket were stored in the boiler room. An open five-gallon bucket was observed to be full of used compressor oil.

International Purchasing Systems

International Purchasing Systems occupied the eastern portion of the site building and consisted of a dry goods warehouse and a small office area. There was no chemical usage or storage reported to be associated with business operations. An oil furnace was used to heat the office area. The warehouse was not heated. A small janitor closet contained a one-gallon container of citrus degreaser, carpet cleaner, a one-gallon container of degreaser (containing petroleum distillates) and an assortment of household cleaners. There were no PID detections in the International Purchasing Systems occupied areas.

A total of six sub-slab sample point locations (SV-10 through SV-15) and six corresponding ambient air locations were approved by the NYSDOH. The sampling locations are shown on Figure 3. The rationale for each soil gas well location is summarized as follows:

3.3 Sub-Slab Soil Gas Sampling

On March 24, 2007, Zebra Environmental, Inc. (Zebra) of Lynbrook, New York, installed the interior soil-gas sampling points (SV-11 through SV-15), with the exception of SV-10. The area selected for SV-10 consisted of a wood framed floor constructed on top of the concrete floor slab. The base bolt used to secure the coring machine was being pulled out of the wood floor during the coring process. An attempt was made to use longer base bolts to secure the coring machine into the underlying concrete slab. After several attempts Zebra indicated they were unable to properly secure the coring machine, which is required by the safety guidelines for proper usage. A dedicated soil gas sampling point was installed at the remaining locations as described in the SVIWP. Photographs showing the vapor point installation are included in Appendix B.

On March 29, 2007, AKRF returned to the site to complete the field sampling program as stated in the SVIWP. AKRF personnel were accompanied by Ernie Sweet of ERM. Prior to initiating sample collection, each sub-slab sampling point was sealed, purged, and screened for the helium tracer gas as indicated in the SVIWP. Sample collection was initiated and during the course of the 8-hour sampling period the field personnel noted that some of the flow regulators were not functioning properly. Since the sample collection was no longer following the SVIWP, the sampling program was immediately stopped and rescheduled.

On April 5, 2007, AKRF returned to the site with new, dedicated sampling equipment to complete the field sampling program. AKRF personnel were accompanied by Ernie Sweet of ERM, Paul Simms of Severn Trent Laboratories (STL), and Sally Dewes of the NYSDEC. Prior to initiating sample collection, each sub-slab sampling point was sealed, purged, and screened for the helium tracer gas as indicated in the SVIWP. Following purging, soil gas samples for VOC analysis were collected by connecting the sample tubing to a six-liter Summa canister equipped with a vacuum gauge and flow regulator set to collect a six-liter sample over an 8-hour sampling period. The sub-slab sampling points ("S.S" label for SV-11 through SV-15 indicates sub-slab sample), were sampled as indicated in the SVIWP. Photographs of the sampling process are included in Appendix B. Sampling logs are included in Appendix C

3.4 Indoor Air Sampling

Indoor air samples [labeled SV-10 (A.A) through SV-15 (A.A)] were collected concurrently with the soil gas sampling. The indoor air samples were placed at the locations agreed upon during the pre-sampling survey and sampling was conducted in accordance with SVIWP.

3.5 Laboratory Methods

The samples were analyzed for VOCs by EPA Method TO-15 with a detection limit of 1 ug/m³ for all compounds, except for trichloroethylene, which had a detection limit of 0.25 ug/m³ for indoor air samples. All sample analysis was performed in a New York State Department of Health Environmental Laboratory Approval Program (NYSDOH-ELAP) laboratory certified to perform NYSDEC Analytical Services Protocol (ASP). The laboratory produced Category B deliverables. Samples were shipped to the laboratory with appropriate chain of custody documentation.

3.6 Quality Assurance / Quality Control

In addition to the laboratory analysis of the field samples, additional analysis was included for quality control measures. These samples included one duplicate, reported as "DUP (S.S)", taken at the indoor air location SV-13 and two background ambient (outdoor) air samples, reported as "Outdoor 1 (A.A)" and "Outdoor 2 (A.A)". All three samples were analyzed for VOCs by EPA Method TO-15. Category B deliverables are included in Appendix D.

4.0 ANALYTICAL RESULTS

4.1 Field Results

Levels of helium detected at all locations were either non detect or below 1% indicating no significant short circuiting of outside air into the soil gas sample ports during purging.

4.2 Laboratory Results

Sub-Slab Samples

Sub-slab analytical results are summarized in Table 1. Concentrations of VOCs detected were compared to the action level guidance values (from Matrix 1 and Matrix 2) of the NYSDOH Soil Vapor Intrusion Guidance and EPA BASE 90th percentile value, which provides a means of comparison to background conditions. TCE detections of 1,200 ug/m³ and 66,000 ug/m³ were recorded at locations SV-11 and SV-12, respectively, above the action levels in Matrix 1. For PCE, two detections of 5.5 and 7.8 ug/m³ were both below the lowest action level of 100 ug/m³ in Matrix 2 and also below the EPA BASE 90th percentile value of 15.9 ug/m³. 1,1,1-trichloroethane (TCA) was not detected in any of the samples. Carbon tetrachloride was detected in one sample at a concentration of 0.53 ug/m³, which was similar to the outdoor air samples. At location SV-12, a value of 11,000 ug/m³ was recorded for cis-1,2-dichloroethene (DCE), a breakdown product of TCE. Toluene was detected in all samples with a maximum value of 3,300 ug/m³ at location SV-12. Cyclohexane was detected in all but one of the samples with a maximum value of 170 ug/m³ at location SV-11.

Indoor Air Samples

Indoor air analytical results and guidance values included in Table 3.1 of the NYSDOH Soil Vapor Intrusion Guidance are included in Table 2. There were no exceedences of the guidance values for either PCE (100 ug/m³) or TCE (5 ug/m³). Toluene was detected at all locations with the highest values of 31 ug/m³ and 19 ug/m³ at locations SV-13 (Motion Labs) and SV-14 (Polymedco warehouse), respectively. The only other detection greater than 10 ug/m³ in indoor air samples was for n-heptane with a value of 17 ug/m³ at location SV-13. With a subslab value of 31 ug/m³ at this location, the indoor air detection is unlikely to be as a result of vapor intrusion and more likely associated with the sources of VOCs in at Motion Labs detailed above. All detections of other compounds were at levels similar to the outdoor air samples and below the EPA BASE 90th percentile values.

5.0 CONCLUSIONS AND RECOMMENDATIONS

No indoor air values for TCE were above the air guidance value of 5ug/m³ in Table 3.1 of the NYSDOH Soil Vapor Intrusion Guidance. Although there is no evidence of exposure to workers at the site based upon the indoor air sampling results, the elevated concentrations of TCE, and to a lesser extent 1,2-DCE and toluene, were detected in the subslab soil gas beneath the Polymedco office area. The updated feasibility should evaluate subslab vapor mitigation to prevent potential future vapor intrusion.

The indoor air sample for SV-13 was taken within the Motion Labs building where a number of possible sources of toluene were present as detailed in section 3.2, and the detected concentration was below the EPA based 90th percentile. Sampling data at locations SV-14 and SV-15 demonstrate that soil vapor intrusion is not occurring and that the potential for soil vapor intrusion to occur is not likely. The detection of 19 ug/m³ at location SV-14 is three times the subslab value and unlikely to be as a result of vapor intrusion. No further action is recommended in the Polymedco, Motion Labs, and International Purchasing Systems warehouse buildings where these samples were collected.

6.0 REFERENCES

Foster Wheeler Environmental Corporation; Remedial Investigation/Feasibility Study (RI/FS), Magna Metals Site, Cortlandt, New York; June 1998.

Tetra Tech FS, Inc.; Draft Supplements Remedial Investigation Report, Magna Metals Site, Cortlandt, New York; August 2004.

Tetra Tech EC, Inc.; Data Findings From the Additional Data Collection Activities for the Former Magna Metals Site (NYSDEC Site No. 360003), Cortlandt, New York; June 2006.

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New York State Department of Environmental Conservation, Division of Environmental Remediation, DER-13/Strategy for Evaluating Soil Vapor Intrusion at Remedial Sites in New York, October 2006.

New York State Department of Environmental Conservation, Division of Environmental Remediation, Draft DER-10/Technical Guidance for Site Investigation and Remediation, December 2002.

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TABLES

Table 1
Magna Metals
New York, NY
Soil Vapor Analytical Results

Client ID Date Sampled	NYSDOH Soil	EPA BASE	SV-13 DUP(S.S)	SV-11(S.S)	SV-12(S.S)	SV-13(S.S)	SV-14(S.S)	SV-15(S.S)
Lab Sample ID Units	Guidance Values	(Em/Bn)	JTPH11AD ug/m3	JTPG31AD ug/m3	JTPHF1AD ug/m3	JTPH51AD ug/m3	JTPH91AD ug/m3	JTPJG1AD ug/m3
Compound	(m/gn)							
1,1,1-Trichloroethane	100/1000	20.6	4.4 U	8.7 U	U 089	4.4 U	U 287 U	U 287 U
1,1,2,2-Tetrachloroethane		20.6	U 3.5 U	11 U	N 098	5.5 U	1.1 U	1,1 U
1,1,2-Trichloroethane		<1.5	4.4 U	8.7 U	U 089	4.4 U	U 287 U	U 287 U
1,1-Dichloroethane		<0.7	3.2 U	6.5 U	O 005	3.2 U	0.65 U	0.65 U
1,1-Dichloroethene		<1.4	3.2 U	6.3 U	490 U	3.2 U	0.63 U	0.63 U
1,2-Dibromoethane (EDB)		<1.5	6.1 U	12 U	O 096	6.1 U	1.2 U	1.2 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane		<1.5	5.6 U	11 U	870 U	5.6 U	1.1 U	1.1 U
1,2-Dichloroethane		<0.9	3.2 U	6.5 U	200 U	3.2 U	0.65 U	0.65 U
1,2-Dichloropropane		<1.6	3.7 U	7.4 U	580 U	3.7 U	0.74 U	0.74 ∪
1,3,5-Trimethylbenzene		3.7	3.9 U	7.9 U	610 U	3.9 ∪	0.79 U	0.79 U
1,3-Butadiene		<3.0	3.5 U	7.1 U	550 U	3.5 U	0.71 U	0.71 U
2,2,4-Trimethylpentane		<4.8	9.3 U	19 U	1500 U	9.3 U	1.9 U	1.9 U
3-Chloropropene		250	2.5 U	5 U	390 U	2.5 U	0.5 U	0.5 U
4-Ethyltoluene		3.6	7.9 U	16 U	1200 U	7.9 U	1.6 U	1.6 U
Benzene		9.4	2.6 U	5.1 U	400 N	2.9	2.6	2.2
Bromodichloromethane		<6.8	5.4 U	11 U	840 U	5.4 U	1.1 U	1.1 U
Bromoform		<6.8	8.3 ∪	17 U	1300 U	8.3 U	1.7 U	1.7 U
Bromomethane		<1.7	3.1 U	6.2 U	480 ∪	3.1 U	0.62 U	0.62 U
Carbon tetrachloride	5/50/250	<1.3	2.5 ∪	5 U	390 U	2.5 U	0.5 U	0.53
Chloroethane		۲.1	2.1 U	4.2 U	330 U	2.1 U	0.42 U	0.42 U
Chloroform		1.1	3.9 U	7.8 U	610 U	3.9 U	0.78 U	0.78 U
cis-1,2-Dichloroethene		<1.9	3.2 U	6.3 U	11000	3.2 U	0.63 U	U 69.0
cis-1,3-Dichloropropene		<2.3	3.6 ∪	7.3 U	570 U	3.6 U	0.73 U	0.73 U
Cyclohexane		<2.3	87	170	1100 U	26	17	26
Dibromochloromethane		<2.3	0.8 U	14 U	1100 U	0.8 ∪	1.4 U	1.4 U
Dichlorodifluoromethane		16.5	4 U	7.9 U	620 U	4 U	2.3	3.2
Ethylbenzene		5.7	6.1	O 6.9	540 U	9.4	U 69.0	0.69 U
Methyl tert-butyl ether		22.2	14 U	79 N	2200 U	14 U	3.3	4.4
m-Xylene & p-Xylene		10	41	16	240 U	22	U 69.0	0.69 U
n-Heptane		<3.6	27	16 U	1300 U	31	1.6 U	1.6 U
n-Hexane		10.2	86	84	1400	88	18	56
o-Xylene		7.9	6.1	0.9 ∪	540 U	9.6	D 69'0	O.69 U
Tetrachloroethene	100/1000	15.9	5.5	11 U	850 U	7.8	1.1 U	1.1 U
Toluene		43	450	450	3300	009	6.2	19
trans-1,2-Dichloroethene		43	3.2 U	6.3 U	490 U	3.2 U	0.63 U	0.63 U
trans-1,3-Dichloropropene		<1.3	3.6 ∪	7.3 U	270 U	3.6 U	0.73 U	0.73 U
Trichloroethene	5/50/250	4.2	3.9	1200	00099	4.8	0.46	0.43 U
Trichlorofluoromethane		18.1	4.5 U	∩ 6	700 U	4.5 U	1.5	2.3
Vinyl bromide		3.5	3.5 U	0 Z	250 U	3.5 U	0.7 U	0.7 U
Vinyl chloride		<1.9	2 U	4.1 U	320 U	2 U I	0.41 U	0.41 U

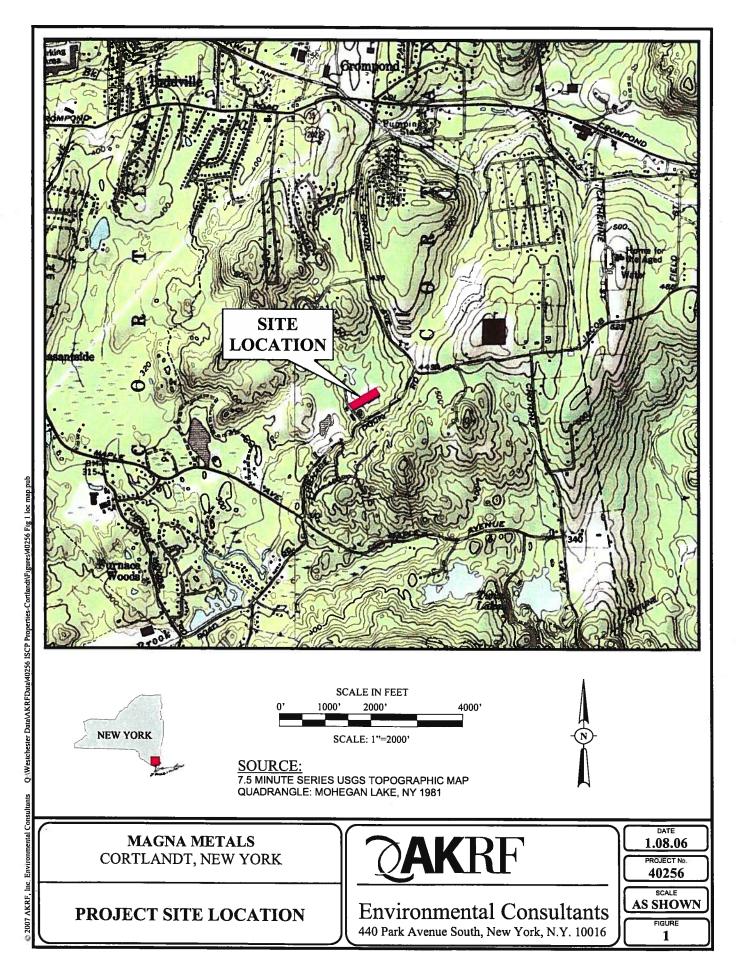
Soil vapor guidance values for monitoring and mitigation presented in Matrices 1 & 2 of New York State Department of Health Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006.

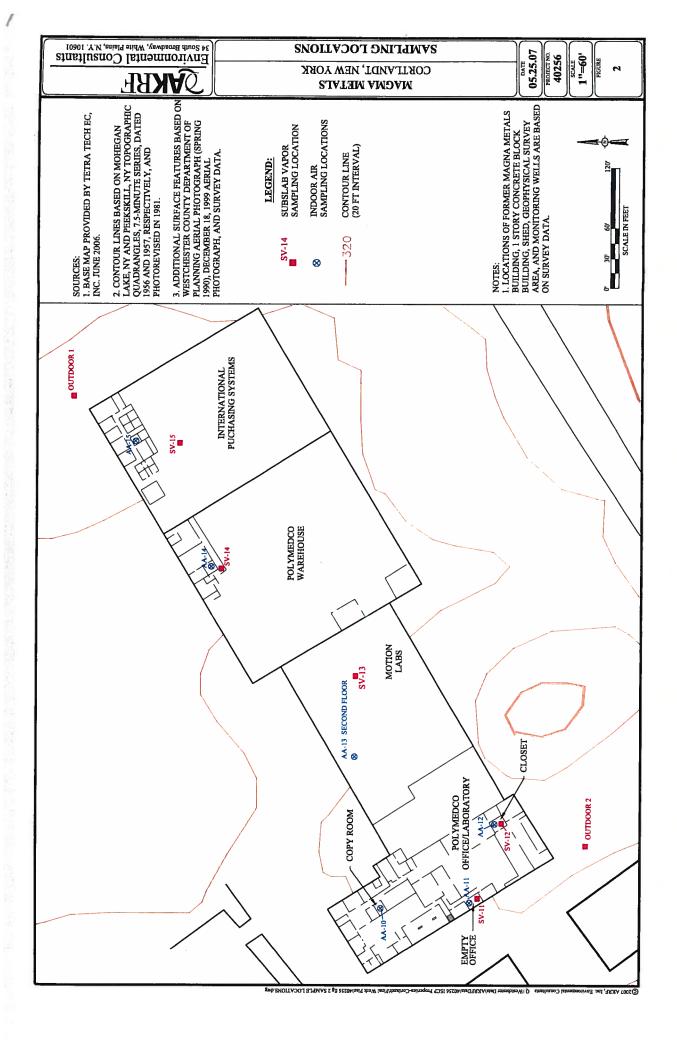
Table 2
Magna Metals
New York, NY
Indoor Air Analytical Results

Date Samples	HOUSAN	90th percentile	OUTDOOR 1 (A.A)	OUTDOOR 2 (A.A) 4/5/2007 18:10	SV-10(A.A) 4/5/2007 16:12	SV-11(A.A) 4/5/2007 16:07	SV-12(A.A) 4/5/2007 18:15	SV-13(A.A) 4/5/2007 17:10	SV-14(A.A) 4/5/2007 17:20	SV-15(A.A) 4/5/2007 16:55
Lab Sample ID Units	Indoor Air Guidance Value (ug/m3)	(ng/m3)	JTPJM1AD ug/m3	JTPJR1AD ug/m3	JTPHC1AD ug/m3	JTPHA1AD ug/m3		JTPH71AD ug/m3	JTPJE1AD ug/m3	JTPJH1AD ug/m3
Compound	ч	20.6	0.44	0.44	0 44 1	0 44 []	0.44 U	0.44 U	0.44 U	0.44 U
1,1,1-Inchioroethane	,	20.2	0.55	0.55 11	0.55 11	0.55 11	0.55 11	0.55 U	0.55 U	0.55 U
1,1,2,2-1 etrachioroethane		<4.5	0.23 0	0.33 0	0.44 U	0.44 U	0.44	0.44 U	0.44 U	0,44 U
1, i,z-1 remoroemane		<0.7	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,1-Dichloroethene	1	<1.4	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0,32 U	0.32 U
1 2-Dihromoethane (FDR)		<1.5	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
1.2-Dichloro-1.1.2.2-tetrafluoroethane		<1.5	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
1 2-Dichloroethane		<0.9	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1 2-Dichloropropane		<1.6	0.37 U	U 75.0	U 75.0	U 78.0	0.37 U	0.37 U	U 78.0	U 7E.0
1.3.5-Trimethylhenzene		3.7	0.39 U	0.39 U	1.2	1.2	0.78	1.7	2.0	0.71
1.3-Butadiene		<3.0	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
2.2.4-Trimethylpentane		<4.8	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
3-Chloropropene		250	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Fthyltoluene		3.6	U 67.0	U 67.0	0.79 U	0.79 U	0.79 U	0.79 U	0,79 U	0.79 U
Benzene		9.4	0.48	0.91	0.57	0.55	0.71	1.1	1.5	0.77
Bromodichloromethane		×6.8	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0,54 U	0.54 U	0.54 U
Bromoform		<6.8	0.83 U	0.83 U	0.83 U	0.83 U	U 883 U	0.83 U	0.83 U	U 88.0
Bromomethane		<1.7	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Carbon tetrachloride	100	<1.3	0.51	0.66	0.56	0.53	0.51	0.47	0.77	0.54
Chloroethane		4.1	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Chloroform		1:1	U 6E.0	0.39 U	0.39 U	0.39 U	U 68.0	1:1	0.95	1.2
cis-1.2-Dichloroethene		د1.9	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
cis-1.3-Dichloropropene		<2.3	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Cyclohexane		<2.3	U 69.0	O 69.0	0.69 U	0.69 U	O 69.0	3.3	1.1	0.97
Dibromochloromethane		<2.3	0.68 U	0.68 U	0.68 U	U 89'0	U 89.0	U 89.0	U 89.0	U 89'0
Dichlorodifluoromethane		16.5	2.2	3.2	2.6	2.3	2.2	2.1	3.6	2.2
Ethylbenzene		5.7	0.35 U	0.35 U	0.41	0.49	0.62	1.8	3.2	1.9
Methyl tert-butyl ether		22.2	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	9	1.4 U	1.4 U
m-Xylene & p-Xylene		10	0.42	0.87	1.3	1.4	6:1	5.9	7.6	4.5
n-Heptane		<3.6	0.82 U	0.94	0.82 U	1./	0.82 U	7	7-	0.4
n-Hexane		10.2	0.7 U	92.0	0.7 U	0.7 U	0.7 U	0.89		0.7 U
o-Xylene		7.9	0.35 U	0.35 U	0.48	9.0	0.59	2	2.8	1.8
Tetrachloroethene	100	15.9	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	1.3	0.61
Toluene		43	0.97	2.2	3.8	3.6	4	31	19	12
trans-1,2-Dichloroethene		43	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
trans-1,3-Dichloropropene		<1.3	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Trichloroethene	5	4.2	0.21 U	0.21 U	2.1	2.2	2.9	1.4	0.21 U	0.21 U
Trichlorofluoromethane		18.1	1.3	1.8	1.4	1.3	1.7	1.3	2.2	1.4
Vinyl bromide		3.5	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Vinyl chloride		<1.9	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

Indoor air gudiance values presented in Table 3.1 and Matrices 1 & 2 of New York State Department of Health Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006.

FIGURES





APPENDIX A NYSDOH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY FORM

OSR-3

Poly Medco.

NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name 13 ()	an Zieroff	Date/Time Prepared	12/16/07	
Preparer's Affiliation	A	Phone No.		
Purpose of Investigation_	To determine	gus point	peations	and
1. OCCUPANT;	factors that	- could affect	induor o	cit.
Interviewed: Y/N	19	388		
Last Name: De Al	Pirst Name:	Richard	Palgue	200
Address:		'an'	Medica	al 40
County:		-	School.	10/
Home Phone:	Office Phone:		•	•
Number of Occupants/pers	ons at this location	Age of Occupants \	- Wh	
2. OWNER OR LANDLO	ORD: (Cheok if same as occu	pant)	AT .	<u>.</u>
Interviewed: (Y)/N	ia .	9		
Last Name:	whaly First Name:	Donald	• •-	, /
Address:				• 10
County:		ģ.	·	180
Flome Phone:	Office Phone;	١		
***************************************	5		*	
3. BUILDING CHARAC	TERISTICS	Polyme	,00	£6
Type of Building: (Cirole	appropriate response)	· .		î
Residential Industrial	School Comme Church Other:	ercial/Multi-use		

_					
If the property is resid	ential, type? (Circle appr	opriate response)		s .	
Ranch Raised Ranch Cape Cod Duplex Modular	2-Family Split Level Contemporary Apartment House Log Home	3-Pamily Colonial Mobile Hon Townhouses Other:	s/Condos		æ
If multiple units, how	тапу?				
If the property is com	nercial, type?		,		
Business Type(s)	Medical G	upply -	Laboral	my of	Cytru
	dences (i.e., multi-use)?	U	es, how many?	•	
Other characteristics:		7620		•	
· Number of floors	<u> </u>	Building age Pi v	14 late 50	14	
Is the building insul	lated? Y/N I	How air tight? Tigi			
4. AIRFLOW	•		,		
Use air current tubes (or tracer smoke to evalu	nte airflow pattern	s and qualitativel	v describe:	
Airflow between floors	- ONE	Floor	*	ř	
		Th 112			
Airflow near source	124	.0	18	,4	
			<u> </u>		//
			•		
*			(*)		
Outdoor air infiltration					
		**************************************			·····
					······································
Infiltration into air duct	s				
	Si.		50		

5. BASEMENT AND CONSTRUC	CTION CHARA	CTERISTICS			
a. Above grade construction:	wood frame	concrete	Block i	wall 191a	b Floor
b. Basement type:	full	crawlspace	alab	other	189
c. Basement floor:	concrete	dirt	stone	other	
d. Basement floor:	uncovered	covered	covered with		
e. Concrete floor:	unscaled	sealed	scaled with	Claint Goa- other Wood of	ting)
f. Foundation walls:	poured	blook	stone	other Wood 4	nome interi
g. Foundation walls:	unsealed	sealed	sealed with	The section of the se	
h. The basement is:	wet	damp	dry	moldy	* * * %
i. The basement is:	finished	unfinished	partially finisi	ned .	€ (4)
j. Sump present?	Y /(v)			# e	1
k. Water in sump? Y/N	/ Not applicable)		38	
Basement/Lowest level depth below	grade:	(feet)			:
Identify potential soil vapor entry p	korkyn ban etalo	dmnte size (e.g	., cracks, utility	ports, drains)	
	¥0			(****)	
Cracks in flow	¥	Æ			(e)
	,				
••				-	
6. HEATING, VENTING and AII					3 ×
Type of heating system(s) used in the	nis building: (circ	le all that appl	y – note primar	y) Boiler 1	n huraco
Hot air circulation Space Heaters	Heat pump		rater baseboard	of the sante	n burage
Electric baseboard	Stream radiation Wood stove		nt floor oor wood boiler	Other	
The primary type of fuel used is:			27		
Natural Gas	Fuel Oil	Kero	sene		å.
Electric Wood	Propane Coal	Solar	197		9
Domostic hot water tank fueled by:					557
Boiler/furnace located in: Base	ment · Outdo	ors Main	Floor	Other	
Air conditioning:	tral Air Winde	ow units Open	Windows	None	89
	((1.0	units	
	·WUH	Iple F	nat tup	ひかけり	,

Are there air distribution ducts present?

Y/N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

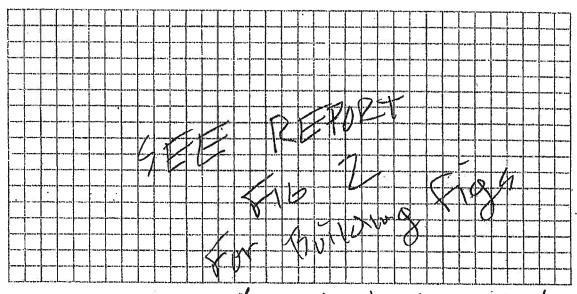
Returns port of our head hot air /A	Chyaten-
	ja .
	·
7. OCCUPANCY	·
Is busement/lowest level occupied? Full-time Occasionally Seldom	Almost Never
Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, w	orkshop, storago)
Basement 1st Floor Lab tenhus Office Worthood 2nd Floor	Lub: po patrad tahu No Herrage in No IK.
3 rd Floor	g
4 th Floor	9 90 2
8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY [Jadus dow - Glovayl a. Is there an attached generge? [] N	
b. Does the garage have a separate heating unit?	Etternal Hear boiles
c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y/N NA Please specify	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
d. Has the building over had a fire?	
c. Is a kerosene or unvented gas space heater present? Y/N Where	?
f. Is there a workshop or hobby/craft area? YN Where & Type	y? Janforial- Fres office
g. Is there smoking in the building? Y/M How frequenti	y? janiforial- Trus
h. Have cleaning products been used recently? Y/W When & Type	01tny
6	3

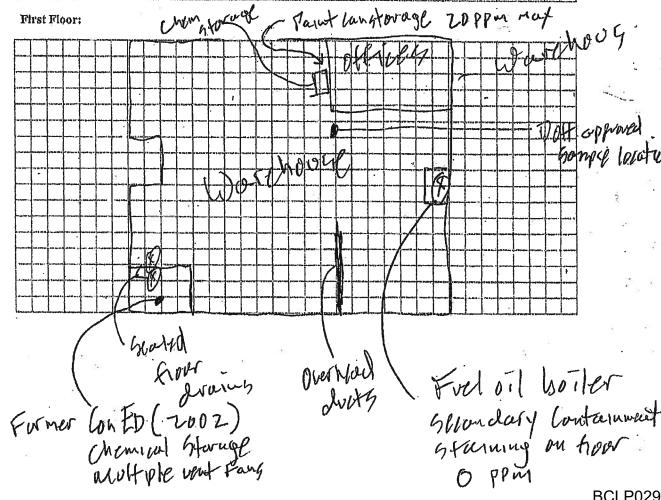
j. Has painting/staining been done in the last 6 months? Y (N) Where & When?
k. Is there new carpet, drapes or other textiles?
1. Have air fresheners been used recently? (Y) N When & Type? Bathrooms- Every wind
m. Is there a kitchen exhaust fan? Y If yes, where vented?
n. Is there a bathroom exhaust fan? N If yes, where vented?
o. Is there a clothes dryer? Y/N If yes, is it vented outside? Y/N
p. Has there been a pesticide application? (Y)N When & Type? (Now have a go - out down
Are there odors in the building? If yes, please describe:
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist
If yes, what types of solvents are used?
If yes, are their clothes washed at work? Lab boath Laundboad - Wot dry Wand
Lab late Lavudtord Wot any arand
Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)
Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate
To any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response) Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) No Unknown
Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response) Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation:
Do any of the building occupants regularly use or work at a dry-cleaning service? (Cirole appropriate response) Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive
Do any of the building occupants regularly use or work at a dry-cleaning service? (Cirole appropriate response) Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive
Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response) Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other:
Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response) Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other: Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other:
Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response) Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other: Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: 10. RELOCATION INFORMATION (for oil spill residential emergency)
Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response) Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other: Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: 10. RELOCATION INFORMATION (for oil spill residential emergency) a. Provide reasons wity relocation is recommended:

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basoment:





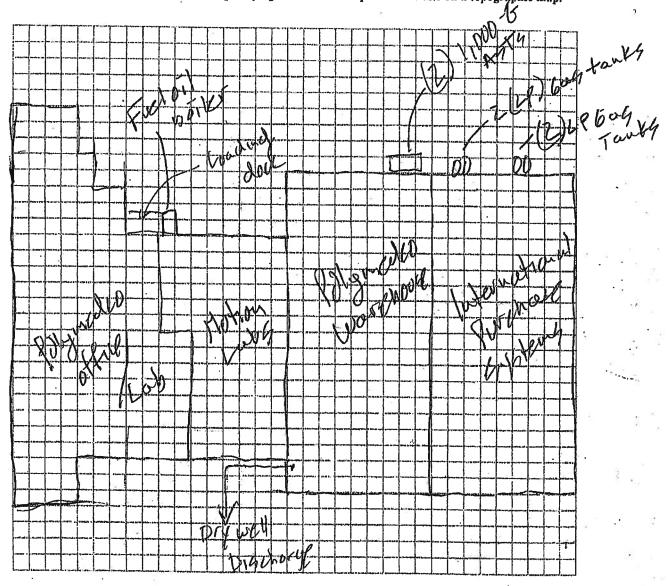
Fred oil boiler Shandary Containment graining on hoor

BCLP02906

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



For Entire building

* Polymodeb

* Motion Lobs &

* Marianal Purchase 4-44-18-18-19

13. PRODUCT	INVENTORY	FORM
-------------	-----------	------

Make & Model of field instrument used:	Mihi	Kaz	2000	PID
The state of the s	, , , , ,	-		

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Ronding (units)	Photo ** Y/N
		ļ <u>.</u>				
	\$ "			· ·	11 85	
			11			
	****				0	
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	611	2				· .
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3.						
	F				 	15%
	E 20		-		 	8
	£			•	. 8	
				4	20	
Ni Ni					्व	
				į.		

^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Pi\Soctions\SIS\Oii Spills\Guldanco Doos\OSR-3.doo

MAREHOUSE CHEMICAL LIST



	CLOROX / CLOROX WIPES
	ZEP/ SITAUS SIEANER AND DEGREASER
,	PEAK WINDSHIELD WASH
	BLUE CORAC/ CAR WASH AND WAX CLEANER
-	PINE SOI DISINFECTANT CLEANER
	PRINT THIONER
	CREAT STUFF / FORM SEALANT
	UGL/DAYLOK ETCH MASONAY CLEANER
1	THERMSTE / DEFORMER
1	HERMATE STEPM CARPET CLEANER
-	ED UPHOISTERY CLEANER
	Cip STRIP PAINT REMOVER
100	OPTEY/ PUC CEMENT
	KE BONLAND BATHROOM DISINFECTART
100	HEHRY CERANIC TILE ACHESIVE
	PAR MIXEL TILE GROOT
	OOPS / MUTTIPURPOSE REMOVER
	No 7 / 100/15HING COMPOUND
	RUSTONEUM SPRAY PRINT
	RUSTOLEUNI PRINIER
	PRINTER'S TOUCH SPRAY PRINT
	XYIENE
	MULTI PRIZOSE GREASE
100	REVERE CRETE-ETCH
1	BENR Floor FAINT
	BEHR/ PRIMER
	BCLP0290

POLYMEDED'S CHEMICAL LIST (OFFICE) () CLOROX/DISINFECTING WIPES LYSOL DISINFECTANT SPRAY Air wick wizARD / SPRAY PLEDGE / WOOD POLISH WINDEX / WONDON CLEANER 409 / GLASS AND SURFACE CLEANER ZEP CITAUS / CLEANER AND DEGREASER MURPHY / OIL SOMP SWELL HOSPITAL DISINFECTANT SPRAY DIRTEX SPRAY CLEANER GLARDSMAN WAX REMOVER WOOD CLEANER SHEETROCK JOIN COMPOUND PIVOT / HEAVY DUTY LIQUID DETERGENT STEAM CLILANER RUGDOLTORI RUB DOCTOR HITRAFFIL PRE-TREAT MENT ZEP / UPHOISTERY C/EMNIER KF | DISINFECTANT BOW AND BATHROOM CLR CALCIUM L'ME, RUST REMOVER GOOF OFF REMOVER WID 40 3 IN 1 012 | TURTIEWAX BUG AND T ARMORAII PROTECTANT STP/ FUEL INSECTOR CLEANER STP GAS TREATMENT 3M SUPER 77 | MUSTIPURIPOSE ADHESIVE 3MI SPRAY PROVAT ARTIST ADHESIVE KRYLOH / VARNISH SIPRAY SEAM SEALER

-	OSS CLEANING CO. CHEMICAL LIST
	SP. SPL. ELITE/GLASS AND WINDOW ELEMIER
	PRONTO MON ACID DISINFECTANT BOND AND
	BATHROOM CLEANER
	TAN-Q. PUBLIK/NON ACID DISINFECTANT BOWN AND
-4	BATHROOM CEANER
-	
	SOLUTION SERIES SUNSHINE NEUTRAL All PURPOSE
	PROSALI UNITEEN UNIVERSAL CLEANER
	PROSALI STERLING STAINIESS STEEL DAID METAL POLISA
-	WINDEX/WINDOW ZIENNER
	LEMON Plas / NEUTRAL ALL PUR POSE FLOOR AND WAL
_	CLEANER
_	SOLUTION SERIES / PINK LOTTON HAND SOAP
_	PROSAII/RICH WOOD POLISH
	SPECTROWAY FURNITURE CLEANER AND POLISH
	OID DUTCH/CLEANGER
	PROSALI CLINI CHEAN FORMING DISINFECTIONIT
	GREAT VALUE / ALL DURPOSE CLEANER
	GREAT VALUE PURPOSE CLEANIER
	BCLP0291

EALL ININDSHIELD WASH Z/TURPENTINE REAL KILL INDSP AND HORNET KILLER SHOO Fly / HORNET KILLED RAID / ANT AND ROACH KILLER STRAIT LINE / MARKING CHAIK DATEY PLUMBER'S PUTTY RUST-OLEUM TRAFFIC STRIPING PAINT BEHR PRINT LATEX KILZ 2 STAINBLOCKER BENJAMIN MOORE LATEX PAINTER'S TOUCH CATEX RUSTICLEUM LATEX RUST-OLEUM SPRAY PAINT KRYLON SPRABY PAINT REVERE / EPOX' COAT FLOOR PAINT WATER BASE DAPI CAULK PHENOSEAL VINIL ADALESIVE CAULK STA-BIL CONCENT RATED FUEL STABILIZER EXPO WHITE BOARD CLEANER TIKIL TORCH FUEL EZ | BOILED LINSEED OIL COROX. | COROX C/EAN UP COROX TO: LET OUT CHENE SOFT SCRUB / BIEDEN CLEANSER PALMOLIVE / DISHWASHING LIQUID HOME SELECT / DISHWASHING LIQUID PAIMOLIVE DISHWASHER DETERGENT BCLP02912 WAREHOUSE

OSR-3

Industrial

Church

Motion LABS.

NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing:

Preparer's Name Myon Liwoff	
Preparer's Name 1100	Date/Time Prepared
Preparer's Affiliation	Phone No
Purpose of Investigation 10 described GVH World Lattened La 1. OCCUPANT: Interviewed: (Y) N	ador are locationy and factors to
1. OCCUPANT:	Petr Heamoura
Interviewed: (Y) N Motion LABS	73059
Interviewed: (Y) N Motion LABS Last Name: Copp Cchia First Name:	John .
Address:	22
County:	
Home Phone: Office Phone:	
Number of Occupants/persons at this location 4D Ag	e of Occupants 16 -65
900-4	-30 suft
2. OWNER OR LANDLORD: (Check if same as occupan	t)
Interviewed: Y/N	a
Last Name:First Name:	
Address:	
County:	•
Home Phone: Office Phone:	
3. BUILDING CHARACTERISTICS	i i
Type of Building: (Circle appropriate response)	
Residential School Commercia	l/Multi-use

If the property is residential,	type? (Circle appropri	iate response)	
Ranch	2-Family	3-Family	
Raised Ranch	Split Level	Colonial	547
Cape Cod	Contemporary	Mobile Home	1.5
Duplex	Apartment House		
Modular		Townhouses/Condos	
Wiodulai	Log Home	Other:	
If multiple units, how many?		n Cada	0
If the property is commercial		Monutacture sure egoipment for e yours - 40	etectariums
Business Type(s) Moh	on large	yours - so	med / power
Does it include residences	(i.e., multi-use)? Y/	If yes, how many?	control grady
Other characteristics:	•		Zight ing
Number of floors 2		ding age 50 yrs	
Is the building insulated? Y	7/N How	air tight? Tight / Average / Not Tight	*
4. AIRFLOW			
Use air current tubes or trace	er smoke to evaluate a	airflow patterns and qualitatively describe:	
		4	
Airflow between floors		₩	
THITIOW DELWEEN ROOMS			
			•
	19		
			(4)
			Đ
A !			
Airflow near source			
			
			
			5.4
Outdoor air infiltration			
Outdoor air inilitration			
			1
Infiltration into air ducts			
8			
		8 #	
			-
린			
	· · · · · · · · · · · · · · · · · · ·		

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other
c. Basement floor:	concrete	dirt	stone	other
d. Basement floor:	uncovered	covered	covered with	
e. Concrete floor:	unsealed	sealed	sealed with _	
f. Foundation walls:	poured	block	stone	other
g. Foundation walls:	unsealed	sealed	sealed with _	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finis	•
j. Sump present?	Y/N		- •	
k. Water in sump? Y/N	/ not applicable			
Identify potential soil vapor entry po	oints and approx			2649
6. HEATING, VENTING and AIR	nevele a	play of	hat apply)	Floor
crades in con	nevele a	play of	hat apply)	Floor
6. HEATING, VENTING and AIR	nevele a	NG (Circle all the same on Radia	hat apply)	Floor ry)
6. HEATING, VENTING and AIR Type of heating system(s) used in this Hot air circulation Space Heaters	CONDITIONII Is building: (circ Heat pump Stream radiation Wood stove	NG (Circle all the same on Radia	hat apply) y – note primater baseboard in floor wood boiler	Floor ry)
6. HEATING, VENTING and AIR Type of heating system(s) used in this Hot air circulation Space Heaters Electric baseboard	CONDITIONII Is building: (circ Heat pump Stream radiation Wood stove	NG (Circle all the same on Radia Outdo	hat apply) y – note prima vater baseboard nt floor oor wood boiler	Floor ry)
6. HEATING, VENTING and AIR Type of heating system(s) used in this space Heaters Electric baseboard The primary type of fuel used is: Natural Gas Electric	CONDITIONII Is building: (circ Heat pump Stream radiation Wood stove Fuel Oil Propane Coal	NG (Circle all the le all that apple on Radia Outdo	hat apply) y – note prima vater baseboard nt floor oor wood boiler	Floor ry)
6. HEATING, VENTING and AIR Type of heating system(s) used in this Hot air circulation Space Heaters Electric baseboard The primary type of fuel used is: Natural Gas Electric Wood	CONDITIONII Is building: (circ Heat pump Stream radiati Wood stove Fuel Oil Propane Coal	NG (Circle all the le all that applied that won Radia Outdoor Keros Solar	hat apply) y – note prima vater baseboard nt floor oor wood boiler ene	Floor ry) Other
6. HEATING, VENTING and AIR Type of heating system(s) used in this Hot air circulation Space Heaters Electric baseboard The primary type of fuel used is: Natural Gas Electric Wood Domestic hot water tank fueled by: Boiler/furnace located in: Basen	CONDITIONII Is building: (circ Heat pump Stream radiati Wood stove Fuel Oil Propane Coal nent Outdo	NG (Circle all the le all that applied that won Radia Outdoor Keros Solar	hat apply) y – note primate vater baseboard in floor wood boiler in the control of the control	Floor ry)

Are there air distribution ducts present?

Y/N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Z seturnes to voot a	~`\$
our hand ducts for his	entin
Zethavot found in bothroom -	- ceiling exhaust Found on 1st & 2nd
Bother access outside.	- Some veene / share uf from
	Polymedla
7. OCCUPANCY	
Is basement/lowest level occupied? Full-time Occa	asionally Seldom Almost Never
Level General Use of Each Floor (e.g., familyroo	om, bedroom, laundry, workshop, storage)
Basement	
A	Shapping / Decerning
2nd Floor Van factoria lux	of Land
3 rd Floor	- The state of the
4 th Floor	
1 1001	
8. FACTORS THAT MAY INFLUENCE INDOOR AIR (QUALITY
a. Is there an attached garage?	Y/X)
b. Does the garage have a separate heating unit?	Y/N/NA
c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)	Y/N/NA Please specify
d. Has the building ever had a fire?	Y/N When?
e. Is a kerosene or unvented gas space heater present?	Y/N Where?
f. Is there a workshop or hobby/craft area?	Y/N Where & Type?
g. Is there smoking in the building?	N How frequently? Limited 2 and flow
h. Have cleaning products been used recently?	Y/N When & Type?
i. Have cosmetic products been used recently?	Y/N When & Type?

j. Has painting/staining been done in the last 6 months? (Y) Where & When? Gray raut bolap
k. Is there new carpet, drapes or other textiles? Y/N Where & When? yargs owelwk fee
k. Is there new carpet, drapes or other textiles? Y/N Where & When? Sharping calbles 1. Have air fresheners been used recently? Y/N When & Type? Letter or the fresheners been used recently?
m. Is there a kitchen exhaust fan? (Y) N If yes, where vented? on 2 con
n. Is there a bathroom exhaust fan?
o. Is there a clothes dryer? Y N If yes, is it vented outside? Y/N
p. Has there been a pesticide application? When & Type? Sturod vent
Are there odors in the building? If yes, please describe: Y/N
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist If yes, what types of solvents are used? Machinea — cereloil — alcohol channes
If yes, what types of solvents are used?
If yes, are their clothes washed at work? Y/N
Pout & sent out to be al preal cleaned and de and
Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response) Spray like for cerble assembly
Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Yes, work at a dry-cleaning service Yes, work at a dry-cleaning service Unknown
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation:
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other: Company of the building/structure? Y/N Date of Installation: Driven Well Dug Well Other:
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other: Sewage Disposal: Public-Sewer Septic Tank Dry Well Other:
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other: Sewage Disposal: Public Sewer Septic Tank Dry Well Other: 10. RELOCATION INFORMATION (for oil spill residential emergency)
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other: Sewage Disposal: Public-Sewer Septic Tank Deach Field Dry Well Other: 10. RELOCATION INFORMATION (for oil spill residential emergency) a. Provide reasons why relocation is recommended:

11. FLOOR PLANS

Keroyen

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

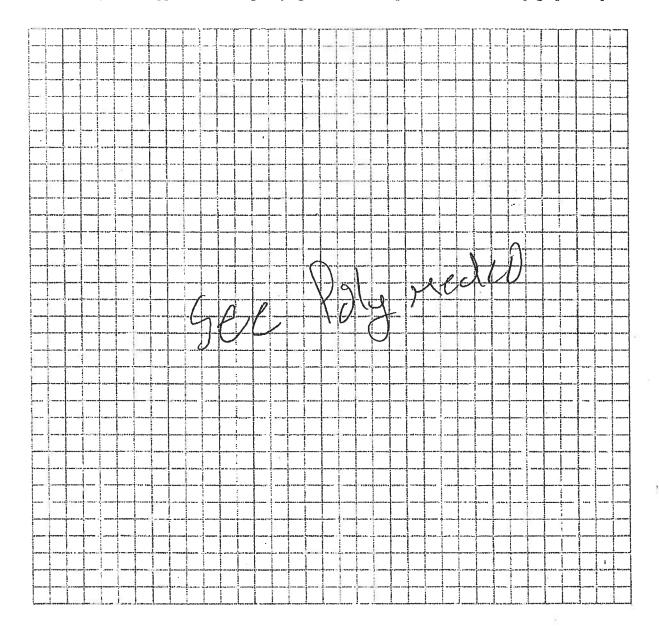
After Basement: Ward A-FTOW Basement: Wund Comowier temment 5 Geddige Floor: 18,000 Material Chang 0,000 12,000 62

BCLP02919

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



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13. PRODUCT INVENTORY FORM	pogli			
		LADA	FID	· (4)
Make & Model of field instrument used:		- 0 - 0	•	

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
2082	Zex Hour haver	Mag	1 4		Û	
	Gloss Cleaner	4 0	1 4	<u> </u>	***	
	Elik ammonia	3 a	l u		74	
15	Bleau	6 ga	· U			
	Hond boap	Baa	ч	<i>t</i>	0	
	Bux	U	u	y ⁶		
	ligho		U	XI		
	goffbarb		U			
\	Mr. Clean		ц		¥ .	
7 met FL	Gorag Whe		ų`	Magnon Popuson w/ pt	FE D	3
1	Ingrobal allohol	ļ	<u>u</u>	J		7) 4)
*	Goldering Flox	la	4	4		89 8
	Olg Mayer gray	0	u			
	Goray paint	13	u	6	D	
	Light Miphatic No	pHage.	- 5a U	*		
\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	Gotor Can-Polinh	ing-	Resolev	u distillates	. 0	
Jun Hon		0	u	us diatillatey	Cz	
"	WD-40	can	ч			
	Arr 4001 Heaver	59	U.	stelvoleum distillate	0	8

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Planmable Cabinet

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Kept in

B	•	Motion	labs
13. PRODUCT INVENTORY FORM (Page 7)	1		+1
Make & Model of field instrument used:			
List specific products found in the residence that have	the potential to affect indoor	air quality.	

Location	Product Description	Size (units)	Condition*	Chemical Ingr	edients	Field Instrument Reading (units)	Photo *
111/1	Emerald Mar	14	u	Degreasi	1		
	Excolone 900	Ear	ч	levo diati	Mayes		
	Composed Compensed	5a	u	Cotting Di	1	. 0	
	gray adlynice	d	и	Fran Fast	74		
	4 cans Pains	la	uply		8		
	Relion Treatd	8	u	Cutting DI	8		
	Clary Dearlay	29	D		Pest llates	7.1)	
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^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)
*** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

P:\Sections\SIS\OII Spills\Guidance Docs\OSR-3.doc

OSR-3 International Purchasing Gyatems

NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Bryan Zieroff Date/Time Prepared 12/16/07
Preparer's Affiliation AKRT Phone No
Purpose of Investigation To determine gygpoint locations a factors that could affect indust ai 1. OCCUPANT: TERMINANT PROCEEDINGS
1. OCCUPANTI WIERNATIONAL PURCHASING SYSTEMS
Interviewed: /Y// N
Last Name: B19049 First Name: Michael
Address:
County:
Home Phone: Office Phone:
Number of Occupants/persons at this location 10 Age of Occupants
19-5 Shoff
2. OWNER OR LANDLORD: (Check if same as occupant)
Interviewed: (X) N
Last Name: Dutnol-let First Name: Donold
Address:
County:
Home Phone:
3. BUILDING CHARACTERISTICS
Type of Building: (Cirole appropriate response)
Residential School Commercial/Multi-use Industrial Church Other:

If the property is residentla	l, type? (Circle app	propriate	response)		
Ranch Roised Ranch Cape Cod Duplex Modular	2-Family Split Level Contemporary Apartment Hou Log Home	ıso	3-Family Colonial Mobile Home Townhouses/Cor Other:		3 .
If multiple units, how many					8
Business Type(s) Does it include residence Other characteristics: Number of floors	al, type? Ly good os (i.e., multi-use)?		16 yes, hogg age 50 ye		/ section
•	137 /37	•	'' V	2	×
Is the building insulated?	YYN	How an	tighty Tight	Averago/Not'l'igh	1
4. AIRFLOW			:d		9
Use air current tubes or tra	icer smoke to eval	unte airf	low patterns and	d qualitatively de	escribe;
Airflow between floors					t.e
	•				
Airflow near source				·	33
			•		
Outdoor air infiltration					
Infiltration into air ducts			···		
				· · · · · · · · · · · · · · · · · · ·	

5. BASEMENT AND CON	STRUCTION CHARA	CTERISTICS	(Circle all tha	t apply)	٠.
a. Above grade construct	ion: wood frame	concrete	stone	brick	
b. Rasoment type:	fuli	crawlspace	slab	other	
c. Basement floor:	concrete	dirt	stone	other	
d. Basement floor:	unoovered	covered	covered wi	th	, #
e. Concrete floor:	unsealed	sealed	sealed with		
°f. Foundation walls:	poured	blook	stone	other	
g. Foundation walls:	unsealed	sealed _	sealed with		
h. The basement is:	wet	damp	dry	moldy	2
f. The basement is:	finished	unfinished	partially fir	nished	
j. Sump present?	· Y/N			•	٦
k. Water in sump?	Y/N/not applicable			880	94
Basement/Lowest level depth	below grade;	_(feet)			:
Identify potential soil vapor	entry points and appro	ximate size (e.g	,, eracks, util	ity ports, drains)	138.5
· ·		r)		*	•
(soven in	Convole	glas		·—————————————————————————————————————	
		1		e 1986	
6. HEATING, VENTING a	wa atu commercani	NC (Cinala alt)	hat annly)		
·	.9	•		y la lhe	1100
Type of heating system(s) use	ed in this building: (cir	cie an that app	ly – note prin	van.zh Mn HEG	4 (V)
Hot air circulation	Heat pump		water baseboar	$\cdot d \mid \cdot \mathcal{W}$	ON CHUUS C
Space Heaters Electric baseboard	Stream radiat Wood stove		ant floor oor wood boil	er Other	?
The primary type of fuel use	d is:		1		la Ga
Natural Gas	Fuel Oil	Kero	sone G u	nall proport	gyatem to
Electric Wood	Propane Coal	Solar	. "	affice	
Domestic hot water tank fue				o ville	
Boiler/furnace located in:	Basement Outd	oors Mair	ı Floor	Other	
•					-
Air conditioning:	Central Air Wind	low units Oper	n Windows	None	

Are there air distribution ducts present?

Y/N

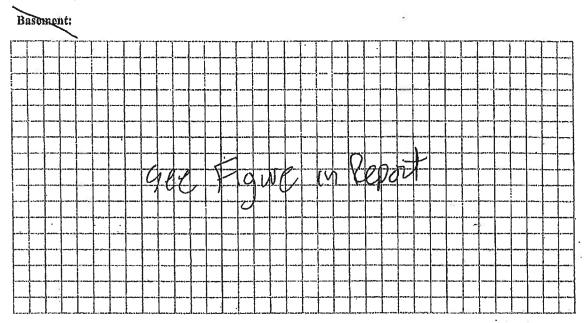
Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

70	heat in worthough		· · · · · · · · · · · · · · · · · · ·
•		*	*
, OCCUPAI	NCY		
s basement/lo	west lovel occupied? Full-time Occa	sionally Seldom Almo	st Never
ievel	General Use of Each Floor (e.g., familyroo	m, bedroom, laundry, worksho	p, stornge)
		8	
Basement	guar office - Dry Coo	sods.	*
at Tloor	Jun 10119 019 00	1007	* 4
nd Floor rd Floor		R =	
th Floor			
. FACTORS	THAT MAY INFLUENCE INDOOR AIR (DUALITY	·
	in attached garage?	y /(8)	
3*2	garage have a soparate heating unit?	Y/N/NA	040
c. Are petro	ploum-powered machines or vehicles the garage (e.g., lawnmower, atv, oar)	Y/N/ÑA) Please specify	i
d. Has the k	building ever had a fire?	Y/N When?	£)
e. Is a keros	sone or unvented gas space heater present?	Y/N Where?	
	workshop or hobby/craft area?	Y/(N) Where & Type?	- FI - M
	smoking in the building?	X/N How frequently?	
_	aning products been used recently?	(Y) N When & Type?	ieral hoghroom.
	metic products been used recently?	Y(N) When & Type?	erol pospiroon.

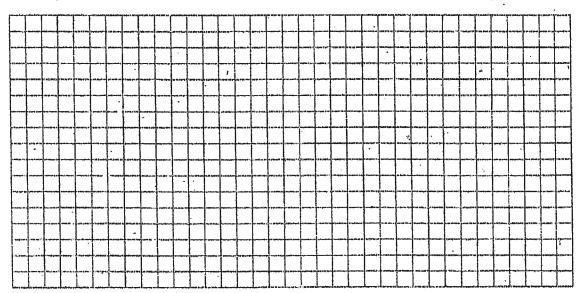
k. Is there new carpet, drapes or other textiles? 1. Have air fresheners been used recentity? 1. Is there a kitchen exhaust fan? 1. Is there a kitchen exhaust fan? 1. Is there a beathroom exhaust fan? 1. Is there a clothes dryer? 2. If yes, where vented? 2. If yes, is it vented outside? Y 3. When & Type? 4. When & Type? 5. When & Type? 4. When & Type? 5. When & Type? 6. G., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delive boiler mechanic, pesticide application, cosmetologist 6. G., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delive boiler mechanic, pesticide application, cosmetologist 6. G., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delive boiler mechanic, pesticide application, cosmetologist 6. G., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delive boiler mechanic, pesticide application, cosmetologist 6. G., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delive boiler mechanic, pesticide application, cosmetologist 6. G., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delive boiler mechanic, pesticide application, cosmetologist 6. G., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delive boiler mechanic or auto body shop, painting, fuel oil delive boiler mechanic or auto body shop, painting, fuel oil delive boiler mechanic or auto body shop, painting, fuel oil delive boiler mechanic or auto body shop, painting, fuel oil delive boiler mechanic or auto body shop, painting, fuel oil delive boiler mechanic or auto body shop, painting, f		
In. Is there a kitchen exhaust fan? In. Is there a kitchen exhaust fan? In. Is there a bathroom exhaust fan? In. Is there a bathroom exhaust fan? If yes, where vented? If yes, where vented? If yes, is it vented outside? Y If yes, is it vented outside? Y If yes, is it vented outside? Y If yes, please desoribe: Do any of the building occupants use solvents at work? If yes, please desoribe: If yes, what types of solvents are used? If yes, what types of solvents are used? If yes, are their clothes washed at work? Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other: Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: In RELOCATION INFORMATION (for oil spill residential emergency) A. Provide reasons why relocation is recommended: D. Residents choose to: remain in home relocate to friends/family relocate to hotel/mote. Responsibility for costx associated with reimbursement explained? Y/N	j. Has painting/staining been done in the last 6 months?	Y/N Where & When?
m. Is there a kitchen exhaust fan? n. Is there a bathroom exhaust fan? n. Is there a bathroom exhaust fan? n. Is there a clothes dryer? n. Is there a clothes dryer? y/N If yes, where vented? n. Is there a clothes dryer? y/N If yes, is it vented outside? Y y/N If yes, is it vented outside? Y y/N If yes, is it vented outside? Y y/N When & Type? Are there odors in the building? If yes, please describe: Do any of the building occupants use solvents at work? If yes, chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delive boiler mechanic, pesticide application, cosmetologist If yes, what types of solvents are used? If yes, are their clothes washed at work? Y/N Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropries yes, use dry-cleaning infrequently (monthly or less) Yes, use dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other: Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: 10. RELOCATION INFORMATION (for oil spill residential emergency) a. Provide reasans why relocation is recommended: b. Residents choose of remain in home relocate to friends/family relocate to hotel/mot c. Responsibility for costs associated with reimbursement explained? Y/N	k. Is there new carpet, drapes or other textiles?	Y/N Where & When?
n. Is there a bathroom exhaust fan? o. Is there a clothes dryer? p. Has there been a pesticide application? Are there edors in the building? If yes, please describe: Do any of the building occupants use solvents at work? If yes, please describe: Do any of the building occupants use solvents at work? If yes, please describe: Y/N Do any of the building occupants are used? If yes, what types of solvents are used? If yes, are their clothes washed at work? Y/N Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriesponse) Yes, use dry-cleaning infrequently (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other: Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: 10. RELOCATION INFORMATION (for oil spill residential emergency) a. Provide reasons why relocation is recommended: b. Residents choose of remain in home relocate to friends/family relocate to hotel/mote. c. Responsibility for costs associated with reimbursement explained? Y/N	l. Have air fresheners been used recently?	Y / N When & Type?
o. Is there a clothes dryer? p. Has there been a pesticide application? Are there odors in the building? If yea, please describe: Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delive boiler mechanic, pesticide application, cosmetologist If yes, what types of solvents are used? If yes, are their clothes washed at work? Y N Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriesponse) Yes, use dry-cleaning infrequently (monthly or less) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other: Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: 10. RELOCATION INFORMATION (for oil spill residential emergency) a. Provide reasons why relocation is recommended: b. Residents choose to: remain in home relocate to friends/family relocate to hotel/mot c. Responsibility for costs associated with reimbursement explained? Y/N	m. Is there a kitchen exhaust fan?	Y/N If yes, where vented?
p. Has there been a pesticide application? Are there odors in the building? If yes, please describe: Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delive boiler mechanic, pesticide application, cosmetologist If yes, what types of solvents are used? If yes, are their clothes washed at work? Yes, are their clothes washed at work? Yes, use dry-cleaning regularly use or work at a dry-cleaning service? (Circle appropriesponse) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Sewer Septic Tank Leach Field Dry Well Other: 10. RELOCATION INFORMATION (for oil spill residential emergency) a. Provide reasons why relocation is recommended: b. Residents choose to: remain in home relocate to friends/family relocate to hotel/mot c. Responsibility for costs associated with reimbursement explained? Y/N	n. Is there a bathroom exhaust fan?	Y/N If yes, where vented?
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(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delive boiler mechanic, pesticide application, cosmetologist If yes, what types of solvents are used? If yes, are their clothes washed at work? Po any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriesponse) Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other: Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: 10. RELOCATION INFORMATION (for oil spill residential emergency) a. Provide reasons why relocation is recommended: b. Residents choose to: remain in home relocate to friends/family relocate to hotel/mot c. Responsibility for costs associated with reimbursement explained? Y/N	Are there odors in the building? If yes, please describe:	Y /N
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Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Is there a radon mitigation system for the building/structure? Y/N Date of Installation: Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other: Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: 10. RELOCATION INFORMATION (for oil spill residential emergency) a. Provide reasons why relocation is recommended: b. Residents choose to: remain in home relocate to friends/family relocate to hotel/mot c. Responsibility for costs associated with reimbursement explained? Y/N	Do any of the building occupants regularly use or work at response)	a dry-cleaning service? (Circle appropriate
Is the system active or passive? Active/Passive 9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other: Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: 10. RELOCATION INFORMATION (for oil spill residential emergency) a. Provide reasons why relocation is recommended: b. Residents choose to: remain in home relocate to friends/family relocate to hotel/mot c. Responsibility for costs associated with reimbursement explained? Y/N	Yes, use dry-cleaning infrequently (monthly or less)	No Unknown
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Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other:	9. WATER AND SEWAGE	4
10. RELOCATION INFORMATION (for oil spill residential emergency) a. Provide reasons why relocation is recommended: b. Residents choose to: remain in home relocate to friends/family relocate to hotel/mot c. Responsibility for costs associated with reimbursement explained? Y/N	Water Supply: Public Water Drilled Well Drive	on Well Dug Well Other:
a. Provide reasons why relocation is recommended: b. Residents choose to: remain in home relocate to friends/family relocate to hotel/mot c. Responsibility for costs associated with reimbursement explained? Y/N	Sewage Disposal: Public Sewer Septic Tank Lead	h Field Dry Well Other:
b. Residents choose to: remain in home relocate to friends/family relocate to hotel/mot c. Responsibility for costs associated with reimbursement explained? Y/N	10. RELOCATION INFORMATION (for oil spill resident	ial emergency)
c. Responsibility for costs associated with reimbursement explained? Y/N	a. Provide reasons why relocation is recommended:	
	b. Residents choose to: remain in home relocate to fi	riends/family relocate to hotel/motel
d. Relocation package provided and explained to residents? Y/N	c. Responsibility for costs associated with reimburseme	ent explained? Y/N
	d. Relocation package provided and explained to resid	ents? Y/N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.



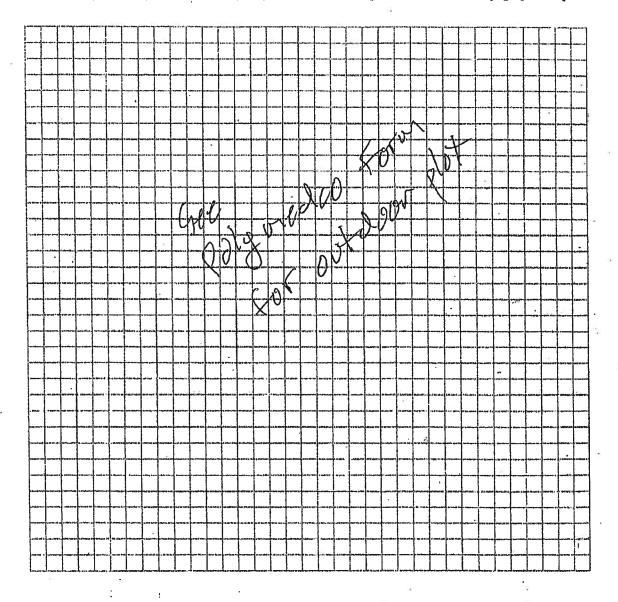
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13,	PROD	UCT	INVENT	'ORY	FORM
-----	------	-----	--------	------	------

Make & Model of field instrument used:

Mini Rat 2000 PID

List specific products found in the residence that have the potential to affect indoor air quality.

		Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N	
\/		MAL	winder	bille	LI.	É	1)		
T.			CAN'N Degreuses	19	ù	you chlorinated	D		
Close			Leanoiset	190	U	petroteum distillates	1)		
Ü			ZCOD Corpet Cleans	10	U	,	Õ		
B	4		Pine Gol	la	U		D	,	80
			stegal.	lan	4		0	ş:	122
Tamp	(1240	lon	U		0		
7	L		0						
							*		
			(a)	8.	-			* .	
		20.7 40.7	1359 - 1						
				·			15.	. 1	
		121		<u></u>	0	54	-		•
			·					g * a	
							<u> </u>		1
		10.	- E	Ţ.		ì			•
				*					

^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Pr\Spetions\SIS\OII Spills\Guidance Doos\OSR-3,doo

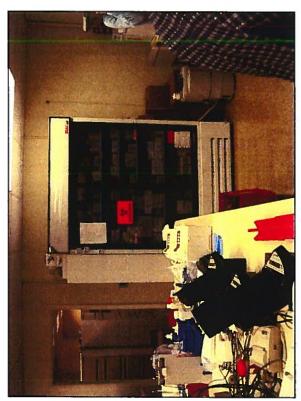
Soil Gas Sampling Log

Job No: 40256			Client:	ISCP	Properties	
Project Location:	Magna metals, C	Cortlandt	Sampled	By:	BT/BZ	79
Date: April 5, 20	007					
8 <u>1</u>	Sample ID:	SV-10	AA			
		Purging			CANNISTET? NO.	149
	Time Started:	9).	·····		FLOW CONTILOC	K143
	Time Stopped:	- 8				727
	Vol. Purged:			liters	* "	
	Flow Rate:		I	_/min	### E	
is .	Laboratory Sa	mple (Sun	ıma Cani	ster)		ži.
Time St	farted: 08 ; topped: $16:1$	12 y	acuum:	28	"5" Hayass	
Time St	copped: LO 1	\	acuum:		Mey to	*
	<u>Fi</u>	eld Sampl	<u>e</u>		\$ z	1
2	PID Calibration:	8				
	Time Started:		"		1	
	Time Stopped:		41	R 14		
	PID Reading:			ppm		

%

He Reading

APPENDIX B
PHOTOGRAPHIC LOG



Photograph 1: Chemical storage in Polymedco laboratory.

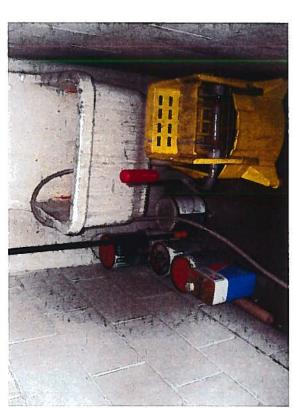


Photograph 2: Chemical and paint storage in Polymedco loading dock room.

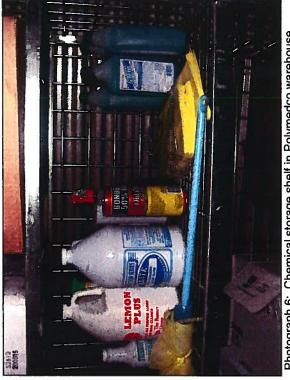


Photograph 4: Fuel oil burner with floor staining in Polymedco warehouse building.





Photograph 5: Paint and chemical storage near slop sink in Polymedco warehouse building.



Photograph 6: Chemical storage shelf in Polymedco warehouse building.



Tonem ton water to from the first tone for the firs

Photograph 8: Flammable chemical storage in Motion Labs production area.

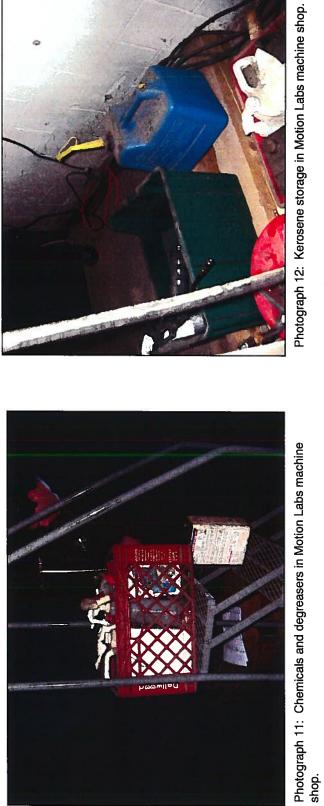




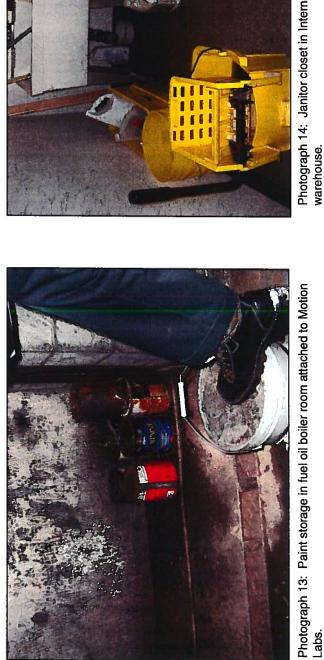
Photograph 9: Flammable chemical storage in Motion Labs production area.



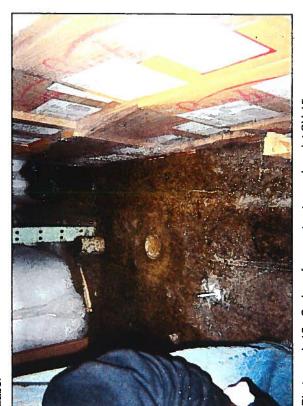
Photograph 10: Chemical storage in Motions Labs production area.











Photograph 15: Coring of concrete at sample point SV-15.

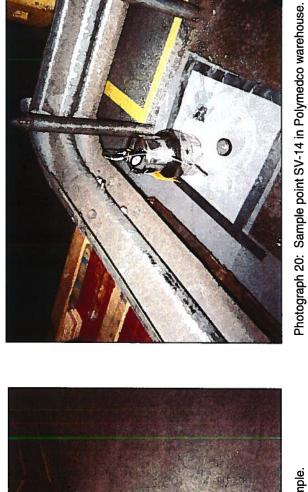
Photograph 16: Installation of vapor point.





Photograph 18: Final sample set-up with Summa canister.

Photograph 17: Preparation of vapor point for purging.





APPENDIX C
SOIL GAS SAMPLING LOGS

Job No: 40256	Client: ISCP Properties
Project Location: Magna metals, Cortlandt	Sampled By: BT/BZ
Date: April 5, 2007	_
Sample ID: Sy-	11, 55
Purging	
Time Started: 8: Time Stopped: 8: Vol. Purged: 0 Flow Rate: ~	AMMSTER N°. 2905 AMMSTER N°. 2905 FIDW COUTROLLOR: 0.1 L/min K328
<u>Laboratory Sample (Su</u>	umma Canister)
Time Started: 8:34 Time Stopped: 16:34	Vacuum: 3.5 "Hey pair
Field Sam	<u>ple</u>
PID Calibration:	
Time Started: Time Stopped:	
PID Reading:	ppm
He Reading	0 %

Job No:	40256		Client:	_ISCP	Properties
Project I	ocation:	Magna metals, Cortlandt	Sampled	By:	BT/BZ
Date:	April 5, 20	007			
	(<u>0</u>				
	T.	Sample ID: $SV-V$, AA		
		.			
	NA	Purging			64
		Time Started:	5:05		CAMMICTO NO. (50)
	· ·	Time Stopped:	、		CANNISTER No. 6591 Flow Controller: K352
42			.07	•	Flow
		Vol. Purged:		iters	Controller: K352
		Flow Rate:	I.,	/min	3.5
		Laboratory Sample (Sun	ıma Canis	ter)	
	Trine Cu	00000	_		Wil S
	Time Sta		-		
	Time Sto	opped: <u>16:07</u> v	acuum:	4.5	"Ha mer
		Field Sample	<u>e</u>		
		PID Calibration:	<i></i>	/	v/A
					i
(6)		Time Started:	 		
		Time Stopped:	<u> </u>	<u> </u>	9
		PID Reading:		ppm	
		He Reading		%	

Job No: 40256	Client: ISCP Properties	
Project Location: Magna metals, Cortlandt	t Sampled By: BT/BZ	j.
Date: April 5, 2007	<u> </u>	2.3
	a 3	
Sample ID: SV	1-12,55	
Purging		
	CANNISTER NO. FLOW CONTROL	15-6
Time Started: 8	1:25 FLOW CONTROL	K119
Time Stopped: 9:	: 30	
Vol. Purged:)-5 liters	
Flow Rate:	2 · / L/min	
Laboratory Sample (St	Summa Canister)	ŝ.
Time Started: 08:37	Vacuum: 30 " Ma	, (d.
Time Stopped: 16:38		
<u>Field Sam</u>	<u>nple</u>	7
PID Calibration:		
Time Started:	·	
Time Stopped:		
PID Reading:	ppm	
Ua Danding	7) 0/	

Job No:	40256		Client: IS	SCP Properties	
Project	Location:	Magna metals, Cortlan	dt Sampled By	BT/BZ	,
Date:	April 5, 20	007			*
		Sample ID: SV	1-12, AA	u u	
					34.7
		<u>Purgi</u>	ng	CAMIDAN NO.	6A'.
		Perts discussion		- CAMVISAN NO. FLOW CONNEC	11 1200
		Time Started:		_ Par world	L K 680
		Time Stopped:			
		Vol. Purged:	liter	rs_	
	*	Flow Rate:	L/mi	n_	
		5		15	7 I
		Laboratory Sample	(Summa Canister))	
	ma al	100.10		~ Cul	W 04
	Time St	arted: 10:15	_ Vacuum:3	O Mg per	
	Time St	opped: <u>18:15</u>	Vacuum:	5.5 Ha psi	
*		Field Sa	<u>imple</u>	<u> </u>	7
		DID Calibrations			
		PID Calibration:			
		Time Started:			12 X2
		Time Stopped:			
		PID Reading:	ppı	<u>m</u> _	
		He Reading		<u>%</u>	

Soil Gas Sampling Log

%

Job No: 40256		Client: ISC	P Properties
Project Location:	Magna metals, Cortl	andt Sampled By:	BT/BZ
Date: April 5, 20	007		
di G	Sample ID:	5V-13 SS	-
	<u>Pur</u>	ging	CANMISTER Nº. 1428 FLOW CONTROL KUD
		8:51	recorded Aug
171		8:56	
200		0.5 liters	
48 ° 72	Flow Rate:	ℓ·/ L/min	
	Laboratory Sampl	e (Summa Canister)	Ð
Time St	arted: <u>09:01</u>	Vacuum: 2	8" Mg pe
Time St	topped: 17:06	Vacuum:	5"Mg per
	<u>Field</u>	Sample .	
	PID Calibration:		
	Time Started:		. (a
	Time Stopped:		35)
	PID Reading:	ppm	<i>ii</i>

He Reading

Job No: 4025	56	Cli	ent: ISCP	Properties	
Project Location	on: Magna metals, C	Cortlandt San	mpled By:	BT/BZ	
Date: April	5, 2007				
27 g	Sample ID:	SV-13	AA	-	
		Purging		= " = =	10 80 1050
	Time Started: Time Stopped:			CANNISTEN	NO. 1345 DL 6319
	Vol. Purged:		liters	ř	#)
	Flow Rate:		L/min		
×	Laboratory Sa	mple (Summa	Canister)	v	9 3 381
	ne Started: $08:9$	5 <u>3</u> Vaci	1um: <u>30</u> 1um: <u>5</u> "	Ma Ma	N
	<u>F</u>	ield Sample		7	3
	PID Calibration:	i			77
	Time Started:				¥ 3
	Time Stopped:				
	PID Reading:		ppm		¥
	Ho Donding		0/		

Job No: 40256	9	Client: ISCI	Properties
Project Location:	Magna metals, Cortlandt		BT/BZ
Date: April 5, 20	007	= = =	
	Sample ID: SU-1	3 55 (DI	UP)
100 N			CAMUSING NO. OFRE FLOW CONTROL K 3.54
	Laboratory Sample (Sur	nma Canister)	7
Time St		Vacuum: 30 Vacuum: 4	O"Ma Be
	Field Samp	<u>le</u>	*
*	PID Calibration: Time Started: Time Stopped:		•
	PID Reading: He Reading	ppm	

Job No:	40256			Client:	ISCP	Properties	
Project L	ocation: Ma	gna metals, Cort	landt S	Sampled	By:	BT / BZ	
Date:	April 5, 2007						
	Samj	ole ID:	W-14	, SS	<u>:</u>		
	mı	z.	rging	o 0		CANNISHER No.	128 128
			9:2 9:3:4			1(2)	
					liters	a H	
		Rate:	0-		_/min	_ rt	
	<u>L</u> :	iboratory Samp	le (Sum	ma Cani	ster)		3
		: 09:28	. v	acuum:	30	" Ma BB	
	Time Stopped	1: <u>17:28</u>	v	acuum:	0 -0-	psi	
		<u>Field</u>	Sample	2	×		. ?
	PID	Calibration:					
	Tim	e Started:		S. D		1	
	Tim	e Stopped:					
	PID	Reading: _			ppm	*	
	He l	Reading		0	%		

Job No:	40256			Client:	ISCP	Properties	
Project I	ocation:	Magna metals, C	ortlandt	Sampled	By:	BT / BZ	ı
Date: _	April 5, 20	07					
E		Sample ID:	SV-	14,	AA	d a a =	
		,	Purging			* **	
			1			CANMATER NO.	1287
		Time Started:				CANMETER NO.	K351
¥)		Time Stopped:					9
		Vol. Purged:	-		liters		
		Flow Rate:		I	/min	MES	
		Laboratory Sa	mple (Sur	nma Canis	ster)		
	Time St	arted: <u>09:1</u>	3	Vacuum:	3	O"Ha m	
	Time St	opped: 17:20	<u> </u>	Vacuum:	4	·5 "Mg 188	
		Fi	eld Samp	<u>le</u>			B
		PID Calibration:		Ð			
		Time Started:				i	
		Time Stopped:					
		PID Reading:			ppm.		
		He Reading			%		

Job No: 40256	Client: ISCP Properties	1.7
Project Location: Magna metals, Cortlan	dt Sampled By: BT/BZ	
Date: April 5, 2007		
Sample ID: 51/-	-15 SS	n
Purgi	ng	
Time Started:	CANMER NO. 657.	4
Time Stopped:	7:45	
Vol. Purged:	0.5 liters	
Flow Rate:	0 - L/min	70
Laboratory Sample (Summa Canister)	
Time Started:	_ Vacuum: 30" Ha	
Time Stopped: 16:56	Vacuum: 8" Meg psi	9 00
Field Sa	mple .	
PID Calibration:		*
Time Started:		
Time Stopped:		
PID Reading:	(r) ppm	
He Reading	(f) %	

Job No: 40256	***	Client:	ISCP Prope	rties	_
Project Location:	Magna metals, Cortland	lt Sampled 1	By: BT	BZ	
Date: _April 5, 200	7				
	*	. 4			
S	Sample ID: SV	15 AA	 =		
	<u>Purgir</u>	<u>ig</u>	(T.a)	-0	
	nt ou v			CAMISAR N' FLOW COMPROL	1407
	Fime Started:			FLOW	WREL
	Fime Stopped:			CONTROL	- 300°
	Vol. Purged:		iters	92	
, I	Flow Rate:	L/	min .		
	Laboratory Sample (Summa Canist	ter)		
Time Star	rted: <u>09:28</u>	_ Vacuum: *	30"Ha	13	*
Time Sto	pped: <u>/6:55</u>	_ Vacuum:	6" Ma	psi	
	Field Sa	mple	_		7
	1 1034 DW				
si 1	PID Calibration:				
ŗ	Fime Started:) (i)	
ř	Time Stopped:				
]	PID Reading:		ppm	(d)	
te]	He Reading		%		

Soil Gas Sampling Log

%

Job No: 40256		Client: ISCP Pro	operties	¥
Project Location:	Magna metals, Cortlandt	Sampled By:	BT/BZ	•);
Date: April 5, 26	007	_		
	Sample ID: OUT DO	200	14	9
3	Purging			
	9		CANNISTED NO.	0433
	Time Started:		FLOW CONTROL	ESSX.
	Time Stopped:		, -	* § 6
	Vol. Purged:	liters		19
40	Flow Rate:	L/min	. F	190
		*		
	Laboratory Sample (Su	mma Canister)		(4
Time C	tarted: 09:40	Vacuum: <u>-30'</u>	'Ha me	130
	(arteu: <u>0(140</u>	Vacuum: Vacuum: Vacuum:	- F E.J	
Time S	topped: 17.50	vacuum: <u>05</u>	Mg 820	
	Field Sam	nle .		7
	1 1011 100011			
	PID Calibration:	Ř		
	Time Started:		ŀ	27 22
	Time Stopped:	¥2	u u	
	PID Reading:	ppm		

He Reading

APPENDIX D
ANALYTICAL DATA REPORT